

# Postgraduate Certificate

Supportive Care Treatment, Toxicity  
Control by Antineoplastic Treatment,  
Palliative Care and Long-term  
Patient Care





## Postgraduate Certificate

### Supportive Care Treatment, Toxicity Control by Antineoplastic Treatment, Palliative Care and Long-term Patient Care

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Credits: 6 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/medicine/postgraduate-certificate/supportive-care-treatment-toxicity-control-antineoplastic-treatment-palliative-care-long-term-patient-care](http://www.techtute.com/us/medicine/postgraduate-certificate/supportive-care-treatment-toxicity-control-antineoplastic-treatment-palliative-care-long-term-patient-care)

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01

# Introduction

Infrequent and low-incidence tumors have certain particularities compared to other tumors, and therefore require specific treatments. But great importance must also be given to long-surviving patients, as well as to those in need of palliative care. If you want to specialize in this field, do not hesitate and enroll in our Postgraduate Certificate.





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*Oncology physicians must continue their specialization throughout their careers, as new developments in this field are constantly emerging that allow them to offer more up-to-date and effective treatments”*

This Postgraduate Certificate includes the most complete specialization on the market in the care of long-surviving patients with low-incidence tumors. In this regard, two fundamental aspects are addressed: on the one hand, the need to learn how to care for long-surviving patients, who will give rise to a population with very particular needs; on the other hand, it must be taken into account that the survival of this group is lower than that of the general oncology population.

According to the U.S. Cancer Institute, "when it comes to cancer, survivorship covers the physical, psychosocial and economic problems of cancer, from diagnosis to the end of life. It focuses on the health and life of a person with cancer beyond the diagnosis and treatment phases. Survival includes issues related to the ability to obtain medical care, follow-up, care for late effects of treatment, second primary cancers and quality of life. Family, friends and caregivers are also part of the survival experience"

But it should be appreciated that terminal illness, end of life and dying care should be kept in mind and the student should be given the opportunity to become familiar with the competencies for their management. Palliative medicine is an area of enormous growth in recent years and updating in palliative care has become a necessity for all those professionals who treat patients with oncological processes. Society demands that professionals who care for these types of patients keep their knowledge up-to-date.

Another important part of this specialization is its focus on the toxicity of the new treatments available, as well as acute care and, as a very novel aspect, treatment in intensive care units.

In this program, the experts, all of them referents in each area of knowledge, will develop aspects related to the context of this spectrum of pathologies, will present the clinical and molecular vision of the same, will show their diagnostic and therapeutic approaches, and will explain complementary aspects such as their research and institutional environment or the global reality of the patients who suffer from them. In this way, a global vision is offered, as well as a specific one, of this type of pathologies, with the objective of training you for professional success.

This **Postgraduate Certificate in Supportive Care Treatment, Toxicity Control by Antineoplastic Treatment, Palliative Care and Long-term Patient Care** contains the most complete and updated educational program on the market. The most important features of the specialization are:

- » The development of case studies presented by experts in oncology
- » The graphic, schematic, and eminently practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice.
- » Practical exercises where self-assessment can be used to improve learning.
- » Its special emphasis on innovative methodologies in the approach and treatment of low-incidence tumors.
- » Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- » Content that is accessible from any fixed or portable device with an Internet connection



*Learn about the latest developments in this type of pathologies and you will notice how you advance in your daily work"*

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*This Postgraduate Certificate is the best investment you can make when selecting a refresher program for two reasons: in addition to updating your knowledge, you will obtain a qualification endorsed by the online University in Spanish: TECH”*

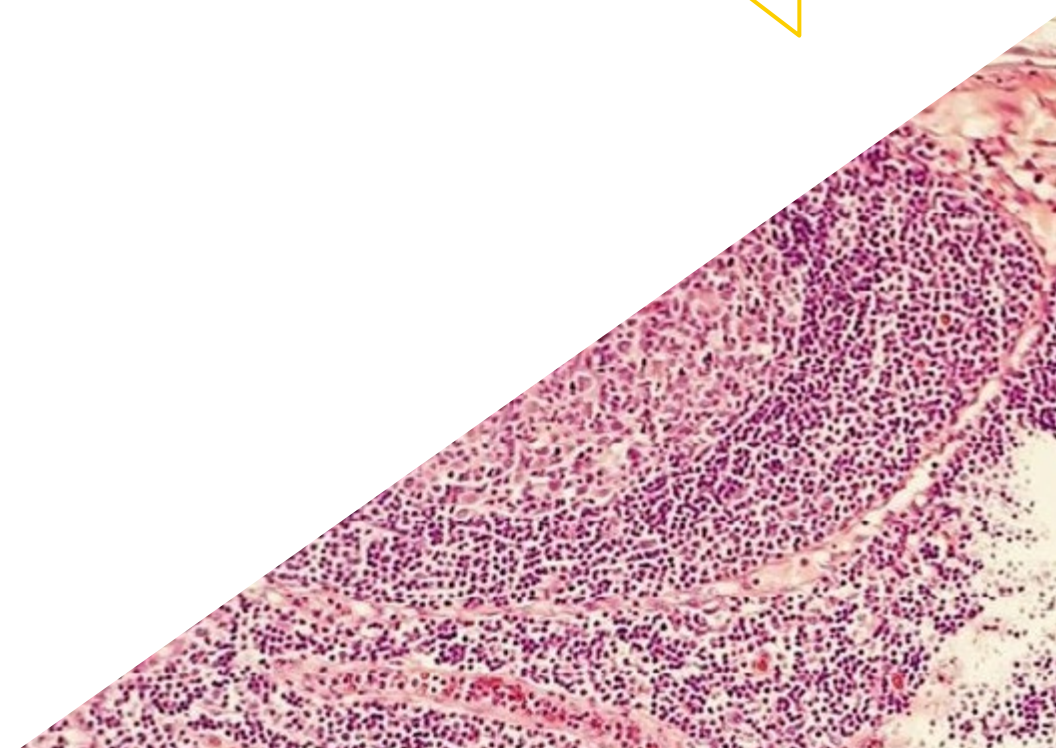
Its teaching staff includes professionals belonging to the field of psychology, who bring to this specialization the experience of their work, in addition to recognized specialists from prestigious reference societies and universities.

Its Multimedia Content, elaborated with the latest Educational Technology, will allow the Professional a situated and contextual learning, that is to say, a Simulated Environment that will provide an immersive specialization programmed to train in real situations.

This program is designed around Problem Based Learning, whereby the specialist must try to solve the different professional practice situations that arise during the academic year. For this purpose, the professional will be assisted by a novel interactive video system developed by renowned and experienced experts in Supportive Care, Toxicity Control by Antineoplastic Treatment, Palliative Care and Long Patient Care.

*This specialisation comes with the best didactic material, providing you with a contextual approach that will facilitate your learning*

*This Postgraduate Certificate 100% online course will allow you to combine your studies with your professional work while increasing your knowledge in this field*



# 02 Objectives

The **Postgraduate Certificate in Supportive Care Treatment, Toxicity Control by Antineoplastic Treatment, Palliative Care and Long-term Patient Care** is oriented to facilitate the performance of the healthcare professional with the latest advances and most innovative treatments in the sector.







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*Our goal is to achieve academic excellence and help you achieve professional success”*



## General Objectives

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- » Acquire concepts and knowledge regarding the epidemiology, clinical, diagnosis and treatment of infrequent tumors, agnostic diagnoses and cancers of unknown origin
- » Know how to apply the diagnostic algorithms and evaluate the prognosis of this pathology
- » Be able to integrate knowledge and face the complexity of formulating clinical and diagnostic judgments based on the available clinical information
- » Know how to apply acquired knowledge and problem-solving skills in new or unfamiliar environments within broader (or multidisciplinary) contexts related to the area of study
- » Know how to establish complex therapeutic plans in the context of the pathology in question Have a deeper knowledge of specific treatment networks, reference centers, clinical trials
- » Incorporate new technologies into daily practice, knowing their advances, limitations and future potential
- » Acquire knowledge about molecular biology tools for the study of these tumors
- » Have a thorough knowledge and use of Tumor Registries Know and use the face-to-face or virtual Molecular Committees





## Specific Objectives

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- » Understand fundamental aspects of biobank operation
  - » Specialize in interprofessional relationship tools for the treatment of orphan, agnostic and cancer of unknown origin and to access expert networks in the different pathology groups
  - » Know how to apply knowledge to solve clinical and research problems in the area of rare pathology
  - » Know how to communicate conclusions, knowledge, and supporting arguments to specialized and non-specialized audiences in a clear and unambiguous way
  - » Acquire the learning skills to enable further studying in a largely selfdirected or autonomous manner
  - » Possess and understand knowledge that provides a basis or opportunity to be original in the development and/or application of ideas, often in a research context
  - » Understand the social responsibility due to rare diseases
- » Learn to care for long-surviving patients, which will result in a population with very unique needs
  - » Acquire the skills to detect and address the needs of this population
  - » Provide skills for terminal illness, end of life and dying care
  - » Deepen in the importance of supportive care in the quality of life and survival of the cancer patient
  - » Acquire skills for the care of major cancer syndromes: pain, emesis, alterations in bowel habits, etc
  - » Be able to deal with the toxicity of oncological treatment

03

# Course Management

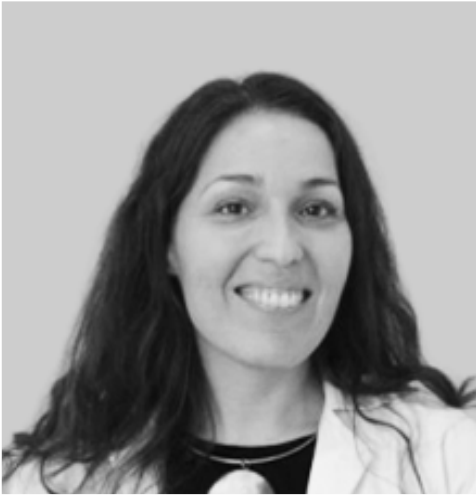
The program's teaching staff includes leading experts in oncology who contribute their vast work experience to this specialization program. Additionally, other recognized experts participate in its design and preparation, completing the program in an interdisciplinary manner.



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*Train with the best professionals in the sector It is the best way to achieve excellence”*

Management



**Dr. Beato, Carmen**

- ♦ Medical Oncologist at University Hospital Virgen Macarena. Unit of Urological Tumors, Infrequent and of Unknown Origin
- ♦ Expert in Immuno-Oncology
- ♦ Master's Degree in Palliative Care
- ♦ Expert in Clinical Trials
- ♦ Member of the Spanish Group on Orphan and Infrequent Tumors (GETHI)
- ♦ Secretary Spanish Group for Cancer of Unknown Origin (GECOD)



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*The best teachers are at the best university. Think no more and Specialize in with us”*

04

# Structure and Content

The structure of the content has been designed by the best professionals in the sector, with extensive experience and recognized prestige in the profession, backed by the volume of cases reviewed, studied, and diagnosed, and with extensive knowledge of new technologies applied to teaching.



PALLI  
CA





ATIVE  
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*This program contains the most complete and up-to-date scientific program on the market. We have selected the best information to put it at your fingertips”*

## Module 1. Supportive Care Treatment, Toxicity Control by Antineoplastic Treatment, Palliative Care and Long-term Patient Care

- 1.1. Increased Survival and Quality of Life Associated with Supportive Care in Cancer Patients
  - 1.1.1. Quality of life Assessment in Oncology
  - 1.1.2. Impact of Supportive Care Treatment on Quality of Life
  - 1.1.3. Impact of Supportive Care Treatment on Survival
- 1.2. Treatment of Oncologic Pain and its Associated Symptoms
  - 1.2.1. Baseline Pain in the Cancer Patient
  - 1.2.2. Incidental Pain in Oncology Patients
  - 1.2.3. Types of Pain: Somatic, Visceral, Neuropathic
  - 1.2.4. Pain Evaluation Diagnoses
  - 1.2.5. Pain Treatment 1st and 2nd Step
  - 1.2.6. Opioid Treatment Opioid Rotation
  - 1.2.7. Toxicity of Opioid Treatment
  - 1.2.8. Adjuvant Drugs
  - 1.2.9. Intervention Techniques
  - 1.2.10. Non-pharmacological Techniques
- 1.3. Toxicity of Antineoplastic Treatment Chemotherapy.
  - 1.3.1. Mechanism of Action of Chemotherapy
  - 1.3.2. Evaluation of the Toxicity of Chemotherapy
  - 1.3.3. Most Frequent Toxicities
    - 1.3.3.1. Digestive Toxicity
    - 1.3.3.2. Skin and Mucosal Toxicity
    - 1.3.3.3. Hematological Toxicity
    - 1.3.3.4. Neurotoxicity
    - 1.3.3.5. Cardiotoxicity
    - 1.3.3.6. Nephrotoxicity



- 1.4. Toxicity of Antineoplastic Treatment: Targeted Therapy
  - 1.4.1. Mechanisms of Action of Targeted Therapy
  - 1.4.2. Evaluation of the Toxicity of Targeted Therapy
  - 1.4.3. Most Frequent Toxicities
    - 1.4.3.1. Digestive Toxicity
    - 1.4.3.2. Skin and Mucosal Toxicity
    - 1.4.3.3. Hematological Toxicity
    - 1.4.3.4. Management of Toxic Hypertension
    - 1.4.3.5. Cardiotoxicity
    - 1.4.3.6. Thrombotic Events
- 1.5. Toxicity of Antineoplastic Treatment: Immunotherapy
  - 1.5.1. Mechanism of Action of Immunotherapy
  - 1.5.2. Evaluation of the Toxicity of Immunotherapy
  - 1.5.3. Most Frequent Toxicities
    - 1.5.3.1. Digestive Toxicity
    - 1.5.3.2. Skin and Mucosal Toxicity
    - 1.5.3.3. Respiratory Toxicity
    - 1.5.3.4. Neurological Toxicity
  - 1.5.4. Special Population Toxicity
- 1.6. Severe Toxicity of Oncologic Treatment Criteria for Admission of Cancer Patients to the ICU
  - 1.6.1. Spectrum of Severe Toxicity in Patients Treated with Immunotherapy
  - 1.6.2. Retreatments After Treatment-Limiting Toxicity
  - 1.6.3. Cytokine Storm Syndrome
  - 1.6.4. Severe Neurological Toxicity
  - 1.6.5. Severe Respiratory Toxicity
  - 1.6.6. Aspects Related to Admission to Intensive Care Units in Cancer Patients
- 1.7. End of Life Care Concepts Associated with the Terminal Patient Palliative Sedation.
  - 1.7.1. Models of Care for the Palliative Care Patient
  - 1.7.2. Concept of Terminal Illness
  - 1.7.3. Main Syndromes at End of Life
  - 1.7.4. Diagnosis of Agony Final Days Situation
  - 1.7.5. Palliative Sedation.
- 1.8. Long-term Survivors in Cancer: Follow-up Programs
  - 1.8.1. Introduction and Definition of the Long-term Survivor Concept in Cancer
  - 1.8.2. Survival Rates and Estimated Number of Long Cancer Survivors
  - 1.8.3. Follow-up Models of Long-term Cancer Survivors
- 1.9. Long-term Cancer Survivors Most Frequent Sequelae
  - 1.9.1. Identification of the Specific Problems of Long-term Survivors
  - 1.9.2. Demand for Health and Non-Health Care
- 1.10. Special Situations: Long Term Survivors with illness, Long Term Survivor Child and Adolescent
  - 1.10.1. Sick Patient and Long Survivor
  - 1.10.2. Long Surviving Teenager



*This specialization will allow you to advance your career in a comfortable way"*

05

# Methodology

This training program provides you with a different way of learning. Our methodology uses a cyclical learning approach: ***Re-learning***.

This teaching system is used in the most prestigious medical schools in the world, and major publications such as the ***New England Journal of Medicine*** have considered it to be one of the most effective.



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*Discover Re-learning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## At TECH we use the Case Method

In a given situation, what would you do? Throughout the program, you will be presented with multiple simulated clinical cases based on real patients, where you will have to investigate, establish hypotheses and, finally, resolve the situation. There is abundant scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

*With TECH you can experience a way of learning that is shaking the foundations of traditional universities around the world*



According to Dr. Gérvas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching potential or because of its uniqueness or rarity. It is essential that the case is based on current professional life, trying to recreate the real conditions in professional medical practice.

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*Did you know that this method was developed in 1912 at Harvard for law students? The case method consisted of presenting students with real-life, complex situations for them to make decisions and justify their decisions on how to solve them. In 1924, Harvard adopted it as a standard teaching method"*

The effectiveness of the method is justified by four fundamental achievements:

1. Students who follow this method not only grasp concepts, but also develop their mental capacity by evaluating real situations and applying their knowledge.
2. The learning process has a clear focus on practical skills that allow the student to better integrate into the real world.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.



## Re-Learning Methodology

At TECH we enhance the Harvard case method with the best 100% online teaching methodology available: Re-learning.

Our University is the first in the world to combine the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, which represent a real revolution with respect to simply studying and analyzing cases.



*The physician will learn through real cases and by solving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning*



At the forefront of world teaching, the Re-learning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best Spanish-speaking online university (Columbia University).

With this methodology we have trained more than 250,000 physicians with unprecedented success, in all clinical specialties regardless of the surgical load. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

*Re-learning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success*

In our program, learning is not a linear process, but rather a spiral (we learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by our learning system is 8.01, according to the highest international standards.



In this program you will have access to the best educational material, prepared with you in mind:



#### Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



#### Latest Techniques and Procedures on Video

We introduce you to the latest techniques, to the latest educational advances, to the forefront of current medical techniques. All this, in first person, with the maximum rigor, explained and detailed for your assimilation and understanding. And best of all, you can watch them as many times as you want.



#### Interactive Summaries

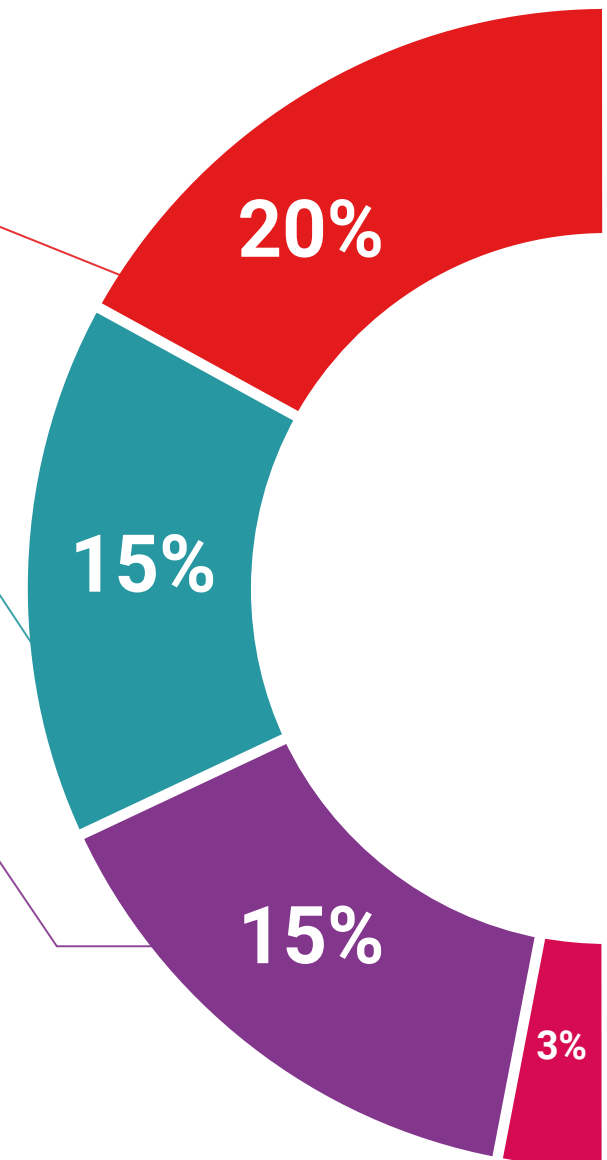
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

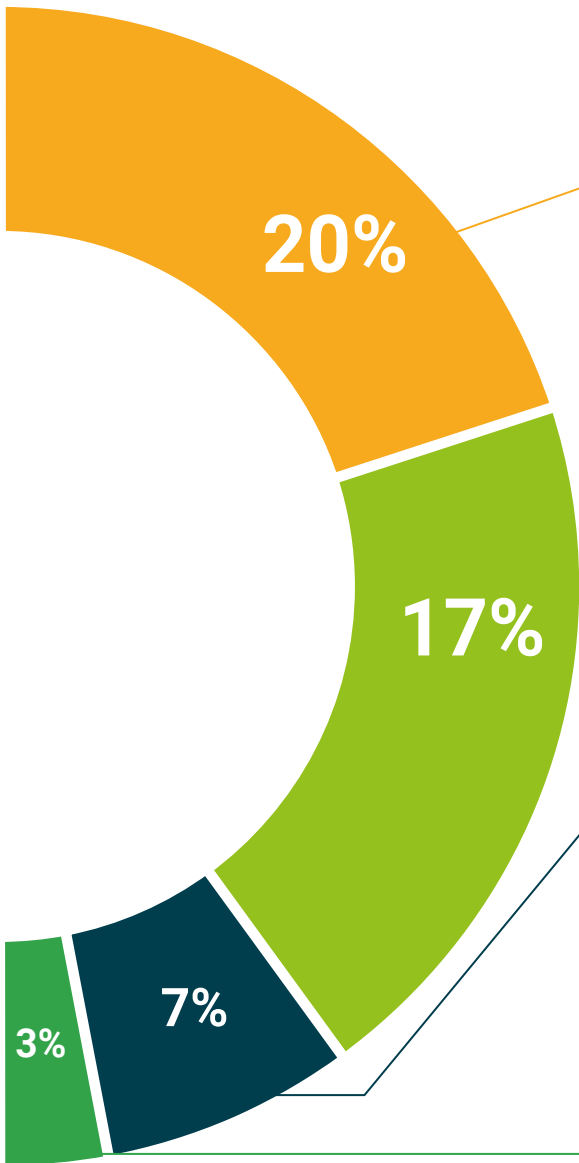
This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".



#### Additional Reading

Recent articles, consensus documents, international guides. in our virtual library you will have access to everything you need to complete your training.





#### Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, we will present you with real case developments in which the expert will guide you through focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



#### Testing & Re-testing

We periodically evaluate and re-evaluate your knowledge throughout the program, through assessment and self-assessment activities and exercises: so that you can see how you are achieving your goals.



#### Classes

There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an expert strengthens knowledge and memory, and generates confidence in our future difficult decisions.



#### Quick Action Guides

We offer you the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help you progress in your learning.



# 06 Certificate

The Postgraduate Certificate in Supportive Care Treatment, Toxicity Control by Antineoplastic Treatment, Palliative Care and Long-term Patient Care guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.



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*Add to your CV a Postgraduate Certificate in Supportive Care Treatment, Toxicity Control by Antineoplastic Treatment, Palliative Care and Long-term Patient Care and become a highly competitive professional"*

This program will allow you to obtain your **Postgraduate Certificate in Supportive Care Treatment, Toxicity Control by Antineoplastic Treatment, Palliative Care and Long-term Patient Care** endorsed by **TECH Global University**, the world's largest online university.

**TECH Global University** is an official European University publicly recognized by the Government of Andorra ([official bulletin](#)). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Certificate in Supportive Care Treatment, Toxicity Control by Antineoplastic Treatment, Palliative Care and Long-term Patient Care**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**



\*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH Global University will make the necessary arrangements to obtain it, at an additional cost.

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Care